

Title (en)  
Fluidized bed boiler

Title (de)  
Wirbelschichtkessel

Title (fr)  
Chaudière à lit fluidisé

Publication  
**EP 2476953 B1 20200304 (EN)**

Application  
**EP 12397501 A 20120110**

Priority  
FI 20115049 A 20110118

Abstract (en)  
[origin: EP2476953A2] A boiler grate (102) is provided, which comprises: air channels for supplying primary air to a furnace (100) of a boiler; at least one channel (203), which is open on top, whereby the channel is arranged to collect ash and material from the furnace; and at least one ash removal means (301, 701, 751), which is placed in said channel and arranged to move ash and material mechanically along the channel. In addition, a boiler is provided, which comprises said grate (102); a furnace (100), which is limited by the walls (101) of the furnace and said grate (102); and an ash chute (103), which is arranged to remove ash and material from the furnace. The ash removal means (301, 701, 751) is arranged to move ash and material towards the air chute. In an example the grate comprises a set of air nozzles (201, 202), which are arranged to supply primary air into the furnace; and the channel is placed between the air nozzles.

IPC 8 full level  
**F23C 10/24** (2006.01); **F23C 10/20** (2006.01); **F23H 15/00** (2006.01)

CPC (source: EP FI US)  
**F23C 10/20** (2013.01 - EP FI US); **F23C 10/24** (2013.01 - EP FI US); **F23H 15/00** (2013.01 - EP FI US)

Cited by  
EP2944680A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 2476953 A2 20120718; EP 2476953 A3 20171206; EP 2476953 B1 20200304**; BR 102012001037 A2 20131029; CA 2764199 A1 20120718; CN 102607020 A 20120725; CN 102607020 B 20160504; DK 2476953 T3 20200511; ES 2792511 T3 20201111; FI 124315 B 20140630; FI 20115049 A0 20110118; FI 20115049 A 20120719; FI 20115049 L 20120719; PL 2476953 T3 20200824; RU 2012101608 A 20130727; RU 2586418 C2 20160610; US 2012180708 A1 20120719; US 8939093 B2 20150127

DOCDB simple family (application)  
**EP 12397501 A 20120110**; BR 102012001037 A 20120116; CA 2764199 A 20120116; CN 201210056770 A 20120118; DK 12397501 T 20120110; ES 12397501 T 20120110; FI 20115049 A 20110118; PL 12397501 T 20120110; RU 2012101608 A 20120117; US 201213352625 A 20120118